

Title (en)
Addressable matrix device.

Title (de)
Adressierbares Matrixgerät.

Title (fr)
Dispositif à matrice adressable.

Publication
EP 0488455 A2 19920603 (EN)

Application
EP 91203053 A 19911122

Priority
GB 9026040 A 19901130

Abstract (en)
In an addressable matrix device, for example an active matrix liquid crystal display device comprising a panel (10) having a row and column array of addressable picture elements (12), in which the elements are addressed via sets of row and column address conductors (14,16) by row and column drive circuits (24,26) providing sequential outputs, at least one of the circuits (24,26) consists of a sequence generator (28,29) comprising an electro-optic switching arrangement having light sensitive means including light sensitive elements (42), e.g. photodiodes, integrated on the panel and controlling the outputs of individual output stages (38) and light emitting means (35) including a plurality of light emitting elements (36) cooperating with the light sensitive elements, the light emitting elements being selectively operable to produce a sequence of outputs from the output stages, for example in order to scan the row address conductors. The electro-optic switching arrangement requires comparatively few external connections to the panel and is of simple form so that high yields are obtained. <IMAGE>

IPC 1-7
G09G 3/20; G09G 3/36; G11C 11/408

IPC 8 full level
G02F 1/133 (2006.01); **G09G 3/20** (2006.01); **G09G 3/36** (2006.01); **H04N 5/66** (2006.01)

CPC (source: EP US)
G09G 3/3674 (2013.01 - EP US); **G09G 3/3685** (2013.01 - EP US)

Cited by
EP1177475A4; US5483263A; US9652090B2; US11073926B2; US6947102B2; US9971456B2; US7053967B2; US9921684B2; US7071907B1; US10048775B2; US10061450B2; US10061449B2; US10067618B2; US10664113B2; US9939935B2; US10067580B2; US10474277B2; US10845901B2; US11687192B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0488455 A2 19920603; EP 0488455 A3 19930224; EP 0488455 B1 19970212; DE 69124673 D1 19970327; DE 69124673 T2 19970731; GB 9026040 D0 19910116; JP H04322296 A 19921112; US 5237314 A 19930817

DOCDB simple family (application)
EP 91203053 A 19911122; DE 69124673 T 19911122; GB 9026040 A 19901130; JP 31249891 A 19911127; US 78016491 A 19911021